

# **RULE 241 BOILERS AT PLASTIC LAMINATE MANUFACTURING FACILITIES**

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## 100 GENERAL

**101 PURPOSE:** To limit the emissions of Nitrogen Oxides (NOx) from boilers and steam generators fueled with a combination of natural gas and waste fuel from paper treating operations at plastic laminate manufacturing facilities.

## 102 APPLICABILITY

102.1 Geographic: The provisions of this rule apply to facilities in all of Placer County.

102.2 Business Category: This rule applies to boilers and steam generators that have a primary energy source of natural gas and waste fuel from paper treating operations at plastic laminate manufacturing facilities with Standard Industrial Classification (SIC) of 3083.

## 103 EXEMPTIONS

103.1 Exemption, Boilers, Steam Generators, and Process Heaters: This rule shall not apply to boilers, steam generators, and process heaters subject to Rule 231, Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters. Boilers at plastic laminate manufacturing facilities that use gaseous or liquid fuels exclusively shall be subject to Rule 231.

103.2 Exemption, Boilers and Steam Generators Subject to Rule 241: Rule 231 shall not apply to boilers subject to Rule 241.

103.3 Exemption, Municipal Solid Waste: This rule shall not apply to combustion units whose primary purpose is to burn municipal solid waste, as defined in Section 201.

## 200 DEFINITIONS

**201 MUNICIPAL SOLID WASTE:** Municipal waste includes household, commercial/retail, or institutional waste. Household waste includes material discarded by single or multiple residential dwellings, hotels, motels, and other similar permanent or temporary housing establishments or facilities. Commercial/retail waste includes material discarded by stores, offices, restaurants, warehouses, nonmanufacturing activities at industrial facilities, and other similar establishments or facilities. Institutional waste includes material discarded by schools, hospitals, prisons, and government facilities and other similar establishments or facilities.

**202 NOX EMISSIONS:** The sum of nitric oxides and nitrogen dioxide in the flue gas, collectively expressed as nitrogen dioxide (NO<sub>2</sub>).

**203 PAPER TREATING OPERATIONS:** A paper coating process in which a uniform layer of phenolic or melamine resin is applied either by (a) dipping a continuous, moving paper substrate into the resin and then using rollers to squeeze the excess resin from the paper, or (b) applying the resin directly to the paper substrate with a roll applicator. Paper treating operations also include lamination of resin-impregnated paper and trimming, cutting, and sanding of laminated sheets and related processes.

- 204 PARTS PER MILLION BY VOLUME (PPMV):** The ratio of the number of gas molecules of a given species, or group, to the number of millions of total gas molecules.
- 205 RESPONSIBLE OFFICIAL:** An individual with the authority to certify that a source complies with all applicable requirements, including the conditions of permits issued to sources in accordance with Regulation 5, PERMITS. A "responsible official" means one of the following:
- 205.1 For a corporation, a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
    - 205.1.1 The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
    - 205.1.2 The delegation of authority to such representative is approved in advance by the Air Pollution Control Officer.
  - 205.2 For a partnership or sole proprietorship, a general partner or the proprietor, respectively; or
  - 205.3 For a municipality, state, federal, or other public agency, either a principal executive officer or a ranking elected official; or
  - 205.4 For an acid rain unit subject to Title IV (Acid Deposition Control) of the Clean Air Act, the "responsible official" is the designated representative of that unit for any purposes under Title V and Rule 507, Federal Operating Permits Program.
- 206 WASTE FUEL:** Material from trimming, cutting and sanding of laminated sheets of resin impregnated paper.
- 207 UNIT:** Any boiler or steam generator subject to this rule.
- 300 STANDARDS**
- 301 LIMITATIONS**
- 301.1 No person shall allow the discharge of NOX emissions into the atmosphere from a unit subject to this rule in excess of the following limitations, whichever is less stringent:
    - 301.1.1 An exhaust concentration of 150 parts per million by volume (ppmv) referenced at dry stack-gas conditions and 3.00 percent by volume stack-gas oxygen on a three-hour average basis.
    - 301.1.2 An exhaust emission rate of 15.5 pounds per hour on a three-hour average basis.

- 301.2 No person shall allow the discharge of carbon monoxide (CO) emissions from units subject to this rule in excess of 400 parts per million by volume (ppmv referenced at dry stack-gas conditions and 3.00 percent by volume stack-gas oxygen, on a three-hour average basis.

## **400 ADMINISTRATIVE REQUIREMENTS**

### **401 COMPLIANCE SCHEDULE**

- 401.1 Any person operating a unit subject to this rule shall demonstrate full compliance with the requirements of Section 301 by November 26, 1999.
- 401.2 Any person operating a unit subject to this rule shall demonstrate compliance with the requirements of Section 301 in accordance with the following schedule:
- 401.2.1 By August 31, 1999, complete all modifications necessary to allow compliance with the requirements of this rule.
- 401.2.2 By September 30, 1999, complete compliance source tests in accordance with Section 502.
- 401.2.3 By November 26, 1999, achieve full compliance with the requirements of Section 301.

### **402 OPERATION AND MAINTENANCE PLAN:** Any person operating a unit subject to this rule shall submit an Operation and Maintenance Plan by September 30, 1999.

- 402.1 The Operation and Maintenance Plan shall specify:
- 402.1.1 Operation and maintenance procedures that will demonstrate continuous operation of the emission control system during emission-producing operations; and
- 402.1.2 Records that must be kept to document the operation and maintenance procedures.
- 402.2 All records must comply with Section 501.
- 402.3 A revised Operation and Maintenance Plan shall be submitted or resubmitted in conjunction with any changes in the procedures addressed in the plan, or upon the request of the Air Pollution Control Officer.

### **403 COMPLIANCE COSTS:** A person operating a unit subject to this rule shall bear all expenses associated with compliance with the monitoring and reporting provisions of this rule.

### **404 CERTIFICATION:** All reports and plans submitted in accordance with this rule shall be signed by a responsible official who shall certify the truth, accuracy, and completeness of the report.

## **500 MONITORING AND RECORDS**

**501 RECORDKEEPING:** A person operating a unit subject to this rule shall keep the following records for each unit:

- 501.1 Calendar date of record.
- 501.2 Number of hours the unit is operated during each day.
- 501.3 Boiler steam load.
- 501.4 Fuel types, including gaseous, liquid, or solid fuels, and amounts on a monthly basis.
- 501.5 Duration of startups and shutdowns.
- 501.6 Type and duration of maintenance and repairs.
- 501.7 Results of compliance tests.

## **502 COMPLIANCE TESTS**

- 502.1 A person operating a unit subject to this rule shall conduct an initial compliance test no later than September 30, 1999. Additional source testing may be required by the Air Pollution Control Officer as necessary to ensure compliance with the standards set forth in Section 301. Compliance source testing is required on an annual basis for sources subject to Rule 507, Federal Operating Permit Program.
  - 502.1.1 All source tests shall be made in the as-found operating condition, except that source tests shall include at least one test conducted at the maximum feasible firing rate allowed by the District permit. No source test shall be conducted within two hours after a continuous period in which fuel flow to the unit is zero, or shut off, for thirty minutes or longer.
  - 502.1.2 The compliance tests shall be conducted for Nitrogen Oxides (NO<sub>x</sub>), Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>), and Oxygen (O<sub>2</sub>) using the test methods specified in Section 503.
- 502.2 At least thirty (30) days prior to the compliance source tests, a written test plan detailing the test methods and procedures to be used shall be submitted for approval by the Air Pollution Control Officer. The plan shall cite the test methods to be used for the determination of compliance with the emission limitations of this rule. The plan shall provide the proposed procedures for the characterization of the waste materials to be burned during testing.
- 502.3 A report of the compliance test shall be submitted to the District within sixty (60) days of completion of the source test.

**503 TEST METHODS:** A person conducting source tests in accordance with Section 502 shall use the following test methods:

503.1 Nitrogen Oxides (NOX): ARB Test Method 100, Title 17, CCR, Section 94114, Procedures for Continuous Emission Stack Sampling, or EPA Test Method 7E, 40 CFR 60, Appendix A. A violation determined by any of these test methods shall constitute a violation of this rule.

503.2 Carbon Monoxide (CO): ARB Test Method 10, Title 17, CCR, Section 94109, Determination of Carbon Monoxide Emissions from Stationary Sources, or ARB Test Method 100, or EPA Test Method 10, 40 CFR 60, Appendix A. A violation determined by any of these test methods shall constitute a violation of this rule.

503.3 Oxygen (O<sub>2</sub>): ARB Test Method 100, Title 17, CCR, Section 94114, Procedures for Continuous Emission Stack Sampling, or EPA Test Method 3A, 40 CFR 60, Appendix A.

503.4 Carbon Dioxide (CO<sub>2</sub>): ARB Test Method 100, Title 17, CCR, Section 94114, Procedures for Continuous Emission Stack Sampling, or EPA Test Method 3A, 40 CFR 60, Appendix A.

**504 EMISSION REDUCTION CREDITS:** For the purpose of Rule 504, Emission Reduction Credits, emission reductions from such shutdown or modification or from a reduction of waste fuel shall be considered surplus only to the extent that the historical actual emissions do not exceed those which would be achieved by a boiler operating in compliance with Rule 231. Reductions in emissions from retrofitting a boiler to meet the requirements of Rule 241 shall not be available as emission reduction credits.

**505 DURATION OF RECORDS:** All records maintained pursuant to this rule shall be retained for at least two years from date of entry, with the exception that sources subject to the requirements of Rule 507, Federal Operating Permit Program, shall retain records at least five years. Records shall be made available for inspection by the Air Pollution Control Officer upon request.

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